

TERENT'YEV, A.P. (Moskva); GURVICH, S.M. (Moskva)

Synthesis of piperidine systems by the cyclization method. Usp.khim. 22
no.6:649-685 Je '53. (MLRA 6:5)
(Piperidine)

GURVICH, S.M.

Reaction of mobile amino group. II. Exchange of amino group in 3-(dialkylamino)propionitriles. A. P. Terent'ev, A. N. Kost, and S. M. Gurchik (Moscow State Univ.). *Zhur. Obshchei Khim.* 23, 616-17 (1953); *cf. C.A.* 47, 8083a.

—Slow addn. of Me_2SO to $\text{Me}_2\text{NCH}_2\text{CH}_2\text{CN}$ in C_6H_6 gave the quaternary salt (I), needles (from MeOH), which, heated to 120° , begins to decomp. (at 200° the reaction is rapid) into $\text{CH}_3:\text{CHCN}$ and Me_2N . The former is obtained in 70% yield. Similar pyrolysis of the Et_2SO salt at 180 – 200° gave 80% $\text{CH}_3:\text{CHCN}$ and a very low yield of MeEt_2N , b. 66 – 9° (picrate, m. 184°). Pyrolysis in the presence of solid KOH at 100 – 200° gave 88% $\text{CH}_3:\text{CHCN}$. Addn.

of 44.9 g. $\text{ClCH}_2\text{CH}_2\text{CN}$ dropwise to 28 g. KOH and 10 g. Et_3N heated to 120° gave a distillate contg. 75–80% $\text{CH}_3:\text{CHCN}$. I (22 g.) refluxed 4 hrs. with 4.6 g. Na dissolved in 60 ml. MeOH gave Me_2N and 21% $\text{MeOCH}_2\text{CH}_2\text{CN}$, b.p. 164 – 5° , n_D^{20} 1.4031, d_4^{20} 0.9488. Refluxing 24 g. $\text{Me}_2\text{NCH}_2\text{CH}_2\text{CN} \cdot \text{MeI}$ with 5.8 g. KOH in 74 g. BuOH 6 hrs. gave 73.7% $\text{BuOCH}_2\text{CH}_2\text{CN}$, b.p. 80 – 2° , d_4^{20} 0.8904, n_D^{20} 1.4174. Heating 13.4 g. $\text{Et}_2\text{NCH}_2\text{CH}_2\text{CN} \cdot \text{MeI}$ with 4.8 g. KCN in 50 ml. H_2O in an autoclave 6 hrs. at 150 – 60° gave, after acidification of the cooled mixt. and extr. with Et_2O , 80% $(\text{CH}_3\text{CO}_2\text{H})$, m. 182° . O. M. Kosolapoff

GURVICH, S. M.

U S S R .

Reaction of mobile amino group. II. Exchange of amino group in 1-(dialkylamino)propan-2-ol. A. E. Terent'ev, A. N. Kost, and S. M. Gurchik. J. Gen. Chem. U.S.S.R. 23, 641-2 (1953) (Engl. transl.) See C.A. 48, 6955h. H. L. H...

GURVICH, S. M.

Synthesis of 2,2-pentamethylenepyrrolidine. A. N. Kost, A. V. Kamernitskii, and S. M. GURVICH. *Vestnik Mosk. Univ.* 9, No. 9, Ser. Fiz.-Mat. Nauk No. 9, 115-119 (1951).—Reduction of nitrocyclohexane (I) with Na in BuOH gave 30% cyclohexylamine, isolated as the HCl salt, m. 203-4°. I (86 g.) and 1 g. KOH in 170 ml. refluxing EtOH treated with 36 g. $\text{CH}_2\text{:CHCN}$ (stabilized with hydroquinone), stirred 1 hr., and the cooled mixt. acidified with dil. H_2SO_4 and dild. yielded 49.5% 1-nitro-1-(2-cyanoethyl)cyclohexane, m. 45°. This (18.6 g.) reduced with 30 g. Na in 450 ml. BuOH and distd. with superheated steam gave 5-12% 2,2-pentamethylenepyrrolidine, b. 51-5°, n_D^{20} 1.4430, d_4^{20} 0.8728 (picrate, m. 131°; 1-naphthylurea deriv., m. 207-0°), and 7-10% 1-amino-1-(3-aminopropyl)cyclohexane, b. 95-7°, n_D^{20} 1.4725, d_4^{20} 0.9160 (picrate, oil). Cyanoethylation of $\text{NCCH}_2\text{CO}_2\text{Et}$ (as the K salt of the aci-form) gave a low yield of $(\text{NCCH}_2\text{CH}_2)_3\text{CNO}_2$, m. 113°, and an oil which evolved HCl on heating to 60°. Reduction of the crude reaction product gave an unidentified amine, b. 98-100° (picrate, m. 160°). $\text{CH}_2(\text{CN})_2$ (10.5 g.) in 50 ml. dioxane treated with 2 ml. KOEt in EtOH (from 0.2 g. K), then with 27 g. $\text{CH}_2\text{:CHCN}$ over 1 hr. below 40°, and the mixt. heated after 2.5 hrs. to 65°, cooled, and acidified with HCl yielded 98.4% $(\text{NC})_2\text{C}(\text{CH}_2\text{CH}_2\text{CN})_2$, m. 89.5°; reduction of this (17.3 g.) with 70 g. Na in BuOH gave a low yield of an oily amine which absorbed CO_2 and gave a picrate m. 214°. G. M. Korolapoff

KOST, A.N.; KAMERNITSKIY, A.V.; GURVICH, S.M.

Synthesis of 2,2-pentamethylene pyrrolidine. Vest.Mosk.un.
9 no.9:115-118 S '54. (MIRA 8:1)

1. Kafedra organicheskoy khimii.
(Pyrrolidine)

GURVICH, S.M.

Reaction of propylene oxide with alcohols. Zhur.ob.khim. 25
no.9:1713-1716 S '55. (MLRA 9:2)

1.Gosudarstvennyy nauchno-issledovatel'skiy institut tsvet-
nykh metallov.
(Propylene oxide) (Alcohols)

GURVICH, S.M.

Synthesis of some acetals of thiodialdehydes. Zhur.ob.khim. 27
no.10:2888-2890 0 '57. (MIRA 11:4)

1.Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov.

(Aldehydes) (Acetals)

GURVICH, S.M.; LIVSHITS, A.K.; MADIYEV, K.M.

Preparation and industrial use of butyl aerofloat SK. Sbor.nauch.
trud.GINTSVETMET no.16:137-143 '59. (MIRA 14:4)
(Butyl aerofloat SK)

LIVSHITS, A.K.; GURVICH, S.M.; MADIYEV, K.M.

Synthesis and the testing of collectors of element copper. Sbor.
nauch.trud.GINTSVETMET no.16:128-136 '59. (MIRA 14:4)
(Copper—Metallurgy) , (Flotation—Equipment and supplies)

KASATKIN, V.N., inzh.; ZHILYAYEV, A.V. [deceased]; KONDRASHOV, A.M.,
inzh.; OKOROKOV, A.A., inzh.; USHAKOV, P.N., inzh.; GURVICH,
S.M.; MOROZOV, M.P., red.; AYZENSHTAT, I.I., red. [deceased];
KORIKOVSKIY, I.K., red.; VORONIN, K.P., tekhn. red.; LARIONOV,
G.Ye., tekhn. red.

[Handbook on boiler inspection] Spravochnik po kotlonadзору.
Izd.3., perer. i dop. Pod obshchei red. M.P.Morozova. Mc-
skva, Gos. energ.izd-vo, 1961. 688 p. (MIRA 15:2)
(Boiler inspection) (Hoisting machinery)

GURVICH, S.M.; BELOVA, R.Ya.

Some derivatives of xanthic acids. Zhur.ob.khim. 31 no.5:1631-
1635 My '61. (MIRA 14:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov.

(Xanthic acid)

GURVICH, S.M.

Synthesis of oxygen-containing disulfides of the aliphatic series. Zhur.ob.khim. 31 no.7:2249-2252 J1 '61. (MIRA'14:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov.
(Disulfide)

GURVICH, S.M.; LIVSHITS, A.K.; POLUBNEVA, E.P.

Production of the OPSB frother. Sbor. nauch. trud. Gintsvetmeta
no.19:289-292 '62. (MIRA 16:7)

(Flotation—Equipment and supplies)

GURVICH, S. M., inzh.; MAMET, A. P., doktor tekhn. nauk

New water heating equipment for electric power plants. Teplo-
energetika 10 no.3:87-92 Mr '63. (MIRA 16:4)

(Water heaters) (Electric power plants)

14

CA

Calculation for permutite equipment Yu. M. Kostin
and S. M. Gurych. *Trans. Thermo-Tech. Inst.*
(Moscow) 1934, No. 1, 41-7. Calcul. for the construction
of a permutite water-treatment plant are presented
A. A. Boshnuk

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

14

Comparison of various water-softening methods. S. A. Nachevich, S. M. Gurvich, Yu. M. Kostrikin and F. E. Prokhorov. *Tekhnicheskaya Teplotekhnika*. Inst. 1934, No. 3, 38-41. — A review. A. A. Bochtinsk

AS 51.5 METALLURGICAL LITERATURE CLASSIFICATION

CA

14

Use of anthracite as filtering material. N. M. Goryach
Izvestiya Stantsii 17, No. 8, 27 July 1966. The use
of anthracite for filtering feed water and for commu-
nial water supply is discussed. U.S.A. practices and
exptl. work carried out in U.S.S.R. are compared.
M. H. Ch.

ALL-URSS METALLURGICAL LITERATURE CLASSIFICATION

PA 42/49136

USSR/Engineering

Water Softeners

Boilers, Low-Pressure

Mar 49

"Economy of Alkali Reagents and Their Substitutes
as Water Softeners in Low-Pressure Boilers,"
S. M. GURVICH, I. F. SHAPKIN, Engineers, 3 pp

"2a Ekonomika Topliva" Vol VI, No 3

Possible measures for economy in expenditure of
alkali reagents are: preventing enterprises from
dumping alkaline wastes which might be used for
water-purification, use of water extracts or leach-
ings from the ash of wood and plant fuels burned
42/49136

USSR/Engineering (Contd)

Mar 49

in furnaces, processing part of the water in sodium-
ionizing filters, and reducing losses of alkali in the
blowoff water.

GURVICH, S. M.

42/49136

QUEYCH, S.M.

A reference book for the purification water for low pressure industrial boilers.
Moskva, Gos. energ. izd-vo, 1950. 80 p. (51-16197)

TJ379.G9

GURVICH, S. M., ed.

Water purification and the water system in industrial steam power plants. Moskva, Gos. energ. izd-vo, 1950. 302 p. (50-39643)

TJ377.G8

SHOVICH, S. I.; SHOVICH, V. I., 1952.

Filters and Filtration

Automatization of cation filter restoration. Elek. sta., 23, No. 5, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, October 1952, Uncl.

HELAN, Fedor Ivanovich, inzhener; GURVICH, S.M., redaktor; NEPOMNYASHCHIY,
N.V., redaktor; VEYNSHTEYN, Ye.B., tekhnicheskiy redaktor

[Water cycle in electric power stations of metallurgical plants]
Vodnyi rezhim elektrostantsii metallurgicheskikh predpriatii.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1954. 186 p. (MLRA 8:3)
(Feed water) (Steam boilers)

GURVICH, S.M.

524. NEW METHODS OF REMOVING HIGH ALKALINITY IN BOILER WATER.
Heret, A.P. and Gervitsch, G.M. (Replaknizatsiya (Heat for Energy, Moscow),
Nov. 1954, 32-34; Energiotekhnika, Dec. 1955, vol. 5, 551-553). The methods
are based on the ammonium cation exchange of the makeup water and the addition
of ammonium salts to the feedwater. They are cheaper as compared with the
H-Na cation exchange method and avoid certain operating problems, though giving
equally successful results. (L).
C.E.A.

GURVICH, S.M., inzhener, redaktor; SMIRNOVA, A.P., redaktor; PERSON, M.N.,
tekhnicheskiiy redaktor

[Studies in water processing] Issledovaniia po vodopodgotovke.
Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955.
144 p. (MIRA 9:2)

1. Moscow. Vsesoiuznyy nauchno-issledovatel'skiy institut vodo-
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inshe-
nernoy gidrogeologii.

(Water--Purification)

GURVICH, S. M.

USSR/Chemical Technology. Chemical Products and Their Application -- Water treatment. Sewage water, I-11

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5391

Author: Gurvich, S. M.

Institution: None

Title: Equipment for the Treatment of Water at Heat and Power Stations

Original

Publication: Vopr. proyektirovaniya i ekspluatatsii vodopodgotovit. ustanovok na teplovykh elektrostantsiyakh, M.-L., Gosenergoizdat, 1955, 89-105

Abstract: Description of the results of tests of a mechanical, vertical, 2-flow, pressure filter of MO TsKTI design, and of a cathionite filter of countercurrent regeneration. There is described a composite automation system of Na-cathionite filters, 1- and 2-step cathionite water softening units with multiple passage valves, hydraulic gate valves and time schedule relays.

Card 1/1

GURVICH, S. M.

PROKHOROV, F.G., kandidat tekhnicheskikh nauk ; GURVICH, S.M., inzhener.
redaktor; LARIONOV, G.Ye., tekhnicheskij redaktor

[Instructions for chemical elimination of salt from water by ion
exchange] Rukovodivashchie ukazaniia po khimicheskomu obessolivaniiu
vody ionitami. Moskva, Gos.energ.izd-vo, 1957. 191 p. (MLRA 10:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii.
Tekhnicheskoye upravleniye.
(Ion exchange) (Water--Purification)

IVANOV, V.S.; FRIDMAN, S.M.; GOLUBTSOV, V.A., redaktor; GURVICH, S.M.,
redaktor; KOSTRIKIN, Yu.M., redaktor; MAMET, A.P., redaktor;
FRIDKIN, A.M., tekhnicheskii redaktor

[Reference manual of chemical and power engineering; in three
volumes] Spravochnik khimika-energetika; v trekh tomakh. Pod
red. V.A.Golubtsova i dr. Moskva, Gos. energ. izd-vo. Vol.3.
[Oils and greases] Masla i konsistentnye smazki. 1957. 248 p.
(MLRA 10:6)

(Lubrication and lubricants)

SURVICH, S.M.

listri: 4E2c

Extraction agents. P. G. Sargent, L. A. Ingalls, R. L. Trukey, A. K. Ingalls, and S. H. Ingalls. U.S. Pat. 2,810,937, Oct. 25, 1957. As broths for the oxidation of hydrocarbons and nonhydrogenated oxidation products of C₆-C₁₀ olefins are used. H. Resch

EM

AKOL'ZIN, P.A.; GURVICH, S.M.; KOTLYAR, S.V.; KOT, A.A.; MANET, A.P.;
MIKHAYLENKO, P.S.; PROKHOREV, S.G.; SEKOLOV, I.M.;
SHKROB, M.S.; YANKOVSKIY, K.A.; GURVICH, L.S.; POLTAKOV, V.V.

To the editors of "Energetik." Energetik 5 no.3:11-12/ Mr 1977.
(MIRA 10:3)

1. Vsesoyuznyy teplotekhnicheskii institut im. Dzerzhinskogo (for Akol'zin, Kot, Yankovskiy) 2. Tsentral'nyy kotloturbinnyy institut (for Gurchich, Manet,) 3. Teplo-elektro-proekt (for Gurevich). 4. Ministerstva elektrostantsiy (for Kotlyar, Prokhorev). 5. Teplovaya elektricheskaya tsentral'naya stantsiya No.9 (for Mikhaylenko, Polyakov) 6. Perevazochnyy etapnyy punkt (for Sekolov). 7. Moskovskoye rayonnoye upravleniye energokhozyaystva (for Chernova). 8. Energeticheskii institut Akademii nauk SSSR (for Shkrob).
(Boilers)

GURVICH, S.M.

136-12-2/18

AUTHORS: Livshits, A.K., Gurvich, S.M., and Madiyev, K.M.

TITLE: Search for Collectors for Cement Copper Flotation (Izyskaniye sobirateley dlya flotatsii tsementnoy medi)

PERIODICAL: Tsvetnyye Metally, 1957, No.12, pp. 6 - 9 (USSR).

ABSTRACT: This is a preliminary communication of the results of laboratory-scale tests on the following classes of sulphur-containing compounds for the flotation of cement copper: dialkyl- and diaryl-dithiophosphoric acids, xanthic acids, disulphides, polydisulphides and bis-sulphides. The seventeen reagents giving the best results are listed. Reagent consumptions and data on the two concentrates and tailings obtained by the use of various reagents for cement copper from samples of two almalyks ores are tabulated (Tables 1 and 2). The effectiveness of the reagents is discussed in terms of their structures. There are 2 tables.

ASSOCIATION: Gintsvetmet *metallurgical inst.*

AVAILABLE: Library of Congress
Card 1/1

Guravich S. M.

Continued treatment of water with sodium and
ammonium ions. P. M. Guravich and S. M. Guravich

GURVICH, S.M., inzhener; MAMET, A.P., doktor tekhnicheskikh nauk.

External treatment of water in low-capacity installations.
Energetik 5 no.1:31-33 Ja '57. (MIRA 10:2)

(Feed-water purification)

GURVICH, S.M., inzhener; MAMET, A.P., doktor tekhnicheskikh nauk.

~~External~~ treatment of water in low-capacity installations. *Energetik*
5 no.2:24-26 F '57. (MLRA 10:3)
(Feed-water purification)

96-1-17/31

AUTHORS: Gurvich, S.M. and Semenov, V.S., Engineers.

TITLE: Automation of the Operation of Pressure Filters in Water Treatment Plant at Power Stations (Avtomatizatsiya napornykh fil'trov dlya obrabotki vody na elektrostantsiyakh)

PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, pp. 65 - 70 (USSR)

ABSTRACT: The main function of the staff of modern water-treatment plant in power stations is associated with regeneration of the filters. It consists largely in the laborious opening and closing of valves. The Moscow Division of the Central Boiler Turbine Institute decided to endeavour to make the process automatic. Not all the operations could be made automatic, because simple and reliable automatic analysing instruments are lacking. However, a system of automation was devised and a schematic diagram is given in Fig. 1. The essence of the system is that a group of three or four filters is served by a single automatic device which can be connected to particular filters in turn whilst the rest remain in operation. The automatic equipment consists of three units, one for loosening and washing the filters, a second for preparing and delivering the regenerating solutions and a third for control of signalling. Clarifying filters do not require the second unit.

Card1/3 This system has the merit of economising on automatic equipment

Cent. Boiler & Turbine Inst. in I. I. Polyakov, Moscow, U.S.S.R.

96-1-17/31

Automation of the Operation of Pressure Filters in Water Treatment Plant at Power Stations.

and freeing the filters of electrical instruments and wiring. The most important part required for the equipment is a valve with hydraulic drive controlled by an electro-hydraulic distribution valve and fitted with limit switches (see Fig.2). This mechanism is required for mechanical opening and closing of the main water valve. Devices already in use for similar applications were not entirely suitable and new equipment was developed. Useful suggestions about the design of hydraulic drive were made by G.S. Katkov, of Power Station No.19 of Mosenergo and the new type has been in use for over three years with complete success.

The hydraulically operated valve is controlled by a manual distributing valve, which was also re-designed. The combination of hydraulic operation of valves with a manual distribution valve and an electro-hydraulic distribution valve makes it possible to use automatic or manual control at will.

A schematic diagram of the automatic operation of ionite filters by the Central Boiler Turbine Institute system is given in Fig. 3A as applied to an automatic group of four filters, each of which has five hydraulically operated valves controlled

Card2/3 by manual distributing valves.

96-1-17/31

Automation of the Operation of Pressure Filters in Water Treatment Plant at Power Stations.

The principles of operation of the equipment are fully described. The units for the preparation and supply of regeneration solutions, somewhat different from those for ionite filters, are also illustrated in Fig.3 and their operation explained. The control and signalling unit registers the operation of all valves and sounds an alarm if they do not open and close in accordance with the programme.

Clarifying filters are made automatic by similar equipment but the unit for preparing and delivering the regenerating solution is omitted.

Equipment of the kind described has now been installed at a power station on the Moscow system. Three factors contribute to the economic improvement that results from the use of this semi-automatic equipment: less staff are required: less reagents are used for water treatment: and capital costs are reduced because the equipment is better used.

It is hoped that it will be possible to develop automatic analysis instruments so that the operation of filters will be completely automatic. There are 4 figures.

Card3/3

ASSOCIATION: MO TsKTI

AVAILABLE: Library of Congress.

SOV/137-58-7-14030

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p6 (USSR)

AUTHORS: Gurvich, S.M., Livshits, A.K.

TITLE: Synthetic Frothers. Communication 2 (Sinteticheskiye penoobrazovately. Soobshcheniye 2)

PERIODICAL: Sb. nauchn. tr. Gos. n.-i. in-t tsvetn. met., 1957, Nr 13, pp 58-66

ABSTRACT: Work in the synthesis and testing of polypropyleneglycol esters (the so-called OPS reactants) is described, also the results of investigation of the frothing action of a new class of compounds - the polyalcoxyalkanes and their monosulfide isologs. Monomethyl and mono-2-oxyethyl esters of polypropyleneglycols (I), 1,1,3,-triethoxybutane, 1,3,3-triethoxypropane, $\beta, \beta, \beta', \beta'$ -tetraethoxydiethylsulfide, $\gamma, \gamma, \gamma', \gamma'$ -tetraethoxydipropylsulfide, and $\gamma, \gamma, \gamma', \gamma'$ -tetraethoxydibutylsulfide were synthesized and tested in laboratory flotation experiments. In the selective flotation of Pb in polymetallic ore, the synthesized frothers, except for I and tetraethoxydibutylsulfide, were superior to cresol in the strength and selectivity of the flotation effect. I is inferior to cresol in the strength

Card 1/2

SOV/137-58-7-14030

Synthetic Frothers

• of the frothing action, but is superior in selectivity. Tetraethoxydibutylsulfide has virtually no frothing effect. For communication Nr I see RZhKhim, 1958, Nr 3, abstract 9447.

A. Sh.

1. Glycines--Synthesis
2. Propenes--Synthesis
3. Alkanes--Applications
4. Lead--Flotation

Card 2/2

GOLUBETSOV, V.A., red.; GURVICH, S.M., red.; KOSTRIKIN, Yu.M., red.;
MAMET, A.P., red.; FRIDKIN, A.M., tekhn. red.

[Reference manual for chemical and power engineering in three
volumes] Spravochnik khimika-energetika v trekh tomakh. Vol.2.

[Treatment of water] Vodopodgotovka. Moskva, Gos. energ. izd-vo
1958. 351 p. (MIRA 11:9)

(Water purification)

AUTHORS: Gurvich, S.M.; Mamet, A.P. SOV-91-58-9-28/29
TITLE: Ammonium-Sodium Cationizing (Ob ammoniynatriy-kationirovani)
PERIODICAL: Energetik, 1958, Nr 9, pp 39-40 (USSR)
ABSTRACT: The authors deal with some problems of ammonium-sodium cationizing raised by a reader's query. There is 1 Soviet reference.
1. Ammonium--Applications 2. Sodium--Applications

Card 1/1

GURVICH, S. M., CHERNOV, V. S. and others.

"On the Planning of Equipments for the Salt-Elimination by Chemical Means."

report presented at the Scientific Technical Meeting on Problems Concerning
the Water Conditions in Electric Power Plants, held by the Committee for
High Pressure High Temperature Steam, Power Engineering Inst. im.
G. M. Krzhizhanovskiy. 26-28 May 1958
(Vest. Ak. Nauk SSSR, '58, No.9, pp.117-9)

GURVICH, S.M., inzh.

Scientific and technical session on water treatment. Teploenergetika
6 no.1:92-95 Ja '59. (MIRA 12:1)
(Feed-water purification--Congresses)

GURVICH, S.M.

Utilization of the KHE-10P anionite in chemical salt-removing
installations of electric power plants. Energetik 7 no.2:37-38.
F '59. (MIRA 12:1)
(Ion exchange) (Feed-water purification)

AUTHOR: Gurvich, S. M.

307/91-59-2-26/35

TITLE: About the Application of "Anionite" EDE-10P in Chemical
Salt-Eliminating Units in Power Plants
(O primenenii anionita EDE-10P dlya khimicheskii
obessolivayushchikh ustanovok na elektrostantsiyakh)

PERIODICAL: Energetik, 1959, Nr 2, pp 37 - 38 (USSR)

ABSTRACT: Anionite EDE-10P is a synthetic resin related to those
used in the production of plastics. Only a limited amount
of anionite EDE-10P has been produced at present for
putting into operation of a few chemical salt-eliminating
units in power plants. Industrial production is planned to
commence toward the end of 1958, by a plastics plant in
Nizhniy Tagil. Production of a better anionite, viz. anionite
AV-17 is to start in 1959-60. Anionite EDE-10P regenerates
by caustic soda.

Card 1/1

SDV/01-59-8-24/28

5(1)

AUTHOR: Gurvich, S.M.

TITLE: The Application of Ammonium-Sodium Cationizing of Boiler Water

PERIODICAL: Energetik, 1959, Nr 8, p 39 (USSR)

ABSTRACT: Lipchinskaya (Glukhovtsy, Vinnitskaya oblast') requested information concerning the application of ammonium-sodium cationizing in the absence of filters filled with steel shavings. In his answer, the author states that the application of ammonium-sodium cationizing should be connected with the removal of oxygen dissolved in boiler water for eliminating corrosion of parts made of copper alloys. For the same reason, equipment should always be kept under more than atmospheric pressure, if ammonia-containing steam is used in equipment with copper alloy parts. In this way, oxygen cannot penetrate into the system. For removing oxygen from boiler water, the sorption method of VTI and the thermal denaturation may be used instead of filters filled with steel shavings. Directions for calculating and operating ammonium-sodium cationizing devices were published by the author and A.P. Mametov, in Energetik, 1957, Nr 1 & 2. There is 1 Soviet reference.

Card 1/1

SOV/96-59-8-13/27

AUTHORS: Gurvich, S.M., Engineer, Prokhorov, F.G., Candidate of
Technical Sciences

TITLE: The Preparation of Feed Water for Once-Through Boilers

PERIODICAL: Teploenergetika 1959, Nr 8, pp 48-51 (USSR)

ABSTRACT: The only available methods of preparing feed water pure enough for once-through boilers are to use evaporators or de-mineralisation with ionites. These methods cannot yet be fully compared because most once-through boilers have hitherto run on condensate. Ordinary evaporators have proved inadequate in some cases but the Moscow Division of the Central Boiler Turbine Institute has tested evaporators with two-stage steam-scrubbing which appear to provide distillate of satisfactory quality. De-mineralisation with ionites has been successful and economic, and the difficulties that have been experienced have resulted from inadequate removal of organic contaminants from the water or from poor quality of the available ionites. It is to be expected that by the time the main stations requiring

Card 1/3 them are ready in 1961 both methods will be reliable.

SOV/96-59-8-13/27

The Preparation of Feed Water for Once-Through Boilers

Ionite de-mineralisation of the feed for once-through boilers is expected to be economic for treating natural waters with a total salt content of up to 600 mg/litre. There is at present no experience of operating stations equipped only with once-through boilers, but nevertheless a series of decisions have had to be made about the methods of water treatment to be used in such stations, and the main recommendations are given. These decisions are likely to be modified in the light of experience; in particular, it is possible that waste-heat boilers heated by flue gases may be used if it proves possible to prevent external corrosion of the heating surfaces or excessive wear by ash. The distillate produced from such boilers may be further purified with ion-exchange resins. When once-through boilers are used exclusively, it may be necessary to purify the turbine condensate, at any rate until condensers of improved design have been developed. It may be possible to avoid treating all of the condensate by installing special barriers within the condensers, to divert the 5 or 10% of the condensate most likely to have been

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SOV/96-59-B-13/27

The Preparation of Feed Water for Once-Through Boilers

contaminated by cooling water. Ionite de-mineralisation of condensate has been used successfully in the USA and Western Germany, but Soviet tests at the Karaganda and Chelyabinsk stations have been very protracted. The use of ion-exchange resins has been retarded by the slowness of the chemical industry in getting them into production. A further point that will require attention is the need to prevent contamination of the water by corrosion products of steel and non-ferrous metals, such as brass tubes. Once-through boilers are particularly sensitive to such contamination. In conclusion a number of practical recommendations are made about improving the water treatment in stations with once-through boilers. There are 5 Soviet references.

ASSOCIATION: MO TsKTI VTI (The Moscow Division of the Central Boiler Turbine Institute and The All-Union Thermo-Technical Institute)

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8(6)

SOV/51-59-9-4/33

AUTHOR: Gurvich, S.M. and Yukhno, A.B., Engineers

TITLE: Packaged Water Preheating Plants

PERIODICAL: Energetik, 1959, Nr 9, pp 8-10 (USSR)

ABSTRACT: The authors describe two unitized water preheating plants. Until recently, there were no unitized water preheating plants available for preparing feed water for low-power boilers. At the Saratovskiy zavod tyazhelogo mashinostroyeniya (Saratov Plant of Heavy Machine Building) tests of the first prototype of packaged, mobile water preheating plants were conducted with success. Such units have an output of 5 tons per hour. Their design is explained in Figure 1. The overall dimensions of these units do not exceed the prescribed dimensions of the USSR RR. The total metal weight is 2780 kg, while the shipping weight is around 6.5 tons. The deaeration of the feed water is to be performed in a separate unit with feed pumps, or in the boiler units. A thermal deaerator is planned,

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SOV/91-59-9-4/33

Packaged Water Preheating Plants

containing all devices required for removing oxygen, carbon dioxide and ammonia. Analogous to this unit, it is planned to manufacture in 1959 a series of unitized water preheating plants having an output of 10 tons per hour. These units are to be used at steam turbine power plants with capacities of 1500 kw. Power plants with capacities of 2250 and 3000 kw will receive two or more units. Based on the scientific research performed by MO TsKTI, a project of a water processing plant was worked out for power plants of 750 and 1500 kw, having an output of 5-10 tons per hour, shown in Figure 2. The processing of the raw water is performed according to the direct flow pressure system. The cationite filters work in series in a two-stage arrangement. The authors describe the function of this unit in some detail. They summarize the advantages of packaged water processing plants: 1) lower expenses for planning water processing equipment; 2) less

Card 2/3

007/91-50-2-4/33

Packaged Water Preheating Plants

space is required, 46 m³ instead of 145 m³, and equipment costs are reduced by mass production; 3) equipment is delivered ready for operation with all accessories. There are 2 diagrams.

Card 3/3

8 (6)

SOV/91-59-11-4/27

AUTHORS: Gurvich, S.M., Engineer, Kagan, D.Ya., Candidate of Technical Sciences, and Mamet, A.P., Doctor of Technical Sciences

TITLE: Causes of Boiler Corrosion

PERIODICAL: Energetik, 1959, Nr 11, pp 10-13 (USSR)

ABSTRACT: The authors explain the possible causes of a case of boiler corrosion at an unidentified plant. The corrosion was detected in a DKV-10-13 boiler. It was caused by an interaction of several factors: large amounts of ammonium sulfate were added to boiler water in the feed tanks; the regeneration of ammonium-sodium-cationite filters was not performed properly; no deaeration of the boiler water; improper washing of the boiler with diluted acids. They state that it is very difficult to estimate the degree of the influence of the one or the other factor because of the lack of sufficiently detailed data. In their conclusions the authors give some general instructions for processing boiler water.

Card 1/1

PHASE I BOOK EXPLOITATION

SOV/3854

Akol'zin, P. A., P. N. Andreyev, I. E. Apel'tsin, S. M. Gurvich, A. A. Kot, Yu. M. Kostrikin, I. I. Koshelev, A.P. Mamet, Yu. O. Novi, M. M. Sendik, I. Kh. Khaybullin

Spravochnik khimika-energetika. tom 1: Spravochnyye materialy obshchego naznacheniya (Handbook of Chemistry in Power Engineering. Vol 1: General Reference Material) Moscow, Gosenergoizdat, 1960. 327 p. 20,000 copies printed.

Eds.: V.A. Golubtsov, S.M. Gurvich, Yu. M. Kostrikin, and A.P. Mamet; Tech. Ed.: K. P. Voronin.

PURPOSE: This handbook is intended for chemists in the field of power engineering, personnel of laboratories, scientific research institutes, and planning and control organizations, as well as for students of universities and tekhnikums.

COVERAGE: This is the first of a three-volume handbook of chemistry in power engineering. It includes data on the water system of boilers, causes of corrosion and methods for controlling it. It also contains general reference material on measures and units, chemical compounds, water and solutions, solubility of substances in water and water vapor at various temperatures, electrochemistry, gases, specifications and prices for certain reagents and materials. The book includes tables, charts, and diagrams. No personalities are mentioned. There are 52 references: 39 Soviet, 10 English, 2 German, and 1 Swedish.

Card 1/12

GURVICH, S.M., inzh.; YUEHNO, A.B., inzh.

Units for water treatment installations. Energomashinostroyeniye
6 no.2:38-39 P '60. (MIRA 13:5)
(Water--Purification)

MAMET, A.P., doktor tekhn.nauk; GURVICH, S.M., inzh.

Selecting a water treatment system for small enterprises.
Teploenergetika no.4:84-85 Ap '60. (MIRA 13:8)
(Feed-water purification)

SHKROB, Mikhail Samoylovich, doktor tekhn. nauk; PROKHOROV, Fedor Georgiyevich, kand. tekhn. nauk, Primalni uchastnye: AKOL'ZIN, P.A., doktor tekhn. nauk; APEL'TSIN, I.E., doktor tekhn. nauk; ZENKEVICH, Yu.V., kand. tekhn. nauk; KVIATKOVSKIY, V.M., kand. tekhn. nauk; KLYACHKO, V.A., doktor tekhn. nauk; GURVICH, S.M., inzh.; ORZHEROVSKIY, M.A., inzh.; STYRIKOVICH, M.A., retsenzent; MARTYNOVA, O.I., retsenzent; VORONIN, K.P., tekhn. red.

[Water treatment and water systems for steam-turbine electric power plants] Vodopodgotovka i vodnyi rezhim paroturbinnnykh elektrostantsii. Moskva, Gos. energ. izd-vo, 1961. 470 p. (MIRA 14:9)

(Feed water purification) (Steam turbines)

GURVICH, Semen Markovich; MAMET, A.P., doktor tekhn. nauk,
retsensent; KOMAROV, L.P., red.; VORONIN, K.P., tekhn.
red.

[Water treatment] Vodopodgotovka. Moskva, Gos. energ. izd-
vo, 1961. 239 p. (MIRA 15:2)
(Feed-water purification)

S/196/62/000/003/005/012
E194/E155

AUTHORS: Gurvich, S.M., and Konstantinov, B.A.

TITLE: Remote control of filters with group automatic control

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.3, 1962, 14-15, abstract 3 G122. (Elektr. stantsii, no.6, 1961, 29-32).

TEXT: The MO TsKTI has developed an additional device for the automatic group control system of ionite filters (see Elektr. stantsii no.9, 1959) by means of which filters that have become exhausted can be disconnected from the mains and connected to the automatic regeneration unit by remote control from a central panel. The operation of reconnection of the filter is checked by means of a hydraulic volume-signalling device, external to the filter, which operates according to the amount of water flowing from the valves of the hydraulic drive.

[Abstractor's note: Complete translation.]

Card 1/1

BELAN, Fedor Ivanovich; MAMET, A.P., doktor tekhn. nauk, retsenzent;
GURVICH, S.M., inzh., red.; BUL'DYAYEV, N.A., tekhn. red.

[Feed water purification] Vodopodgotovka. Izd.2., perer.
Moskva, Gosenergoizdat, 1963. 319 p. (MIRA 16:11)
(Feed water purification)

GURVICH, S.M.

Automatic control of mechanical and ion exchange filters of
water treating systems. Vodopod., vod. razh. i khimkont. na
parosil. ust. no.1:112-127 '64. (MIRA 18:2)

1. Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo
i proyektno-konstrukorskogo kotloturbinного instituta im. Polzunova.

GURVICH, S.M.; SOKOLOVA, R.Ya.

Synthesis of certain monoalkyl ethers of polyethylene and polypropylene glycols. Zhur.org.khim. 1 no.3:500-502 Mr '65.

(MIRA 18:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov.

GURVICH, Semen Markovich; CHEKHYAVOKIN, V.M., tech., research;
KUMET, A.I., prof., ed.; SHENKOV, L.N., ed.

[Water-treatment plant technician] Apparatshik vodopod-
gotovki. Moskva, Energiia, 1964. 279 p.
(MIRA 18:2)

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2. USSR (600)
4. Forests and Forestry
7. D. I. Mendeleev on steppe forestry. Les i step' 4, no. 10, 1952.

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The last years of M.P.Cherskaia. Izv.Vses.gosr.obshch. 37 no.4:
363-364 J1-Ag'55. (MLRA 8:10)
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[A bibliographical index of our countrymen's names on the map of the world] Imena nashikh zemliakov na karte mira; bibliograficheskii ukazatel'. Rostov-na-Donu, 1956. 47 p.

(MIRA 16:1)

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dots., red.; KOSTRYUKOVA, K.Yu., prof., doktor biol.nauk, red.;
SIROTININ, N.N., prof., red.; FROL'KUS, V.V., dots., red.;
TREYGERMAN, I.I., tekhn.red.

[Philosophical problems in medicine and natural sciences] Nekotorye
filosofskie voprosy meditsiny i estestvoznaniia; trudy Instituta.
Kiev, 1957. 172 p. (MIRA 11:6)

1. Kiyev. Meditsinskiy institut imeni A.A.Bogomol'tsa. 2. Direktor
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nyy chlen AMN SSSR (for Sirotinin)
(MEDICINE--PHILOSOPHY)
(SCIENCE--PHILOSOPHY)

GURVICH, S.S., dots.

Some problems on the theories of public health in the light of the
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(MIRA 11:3)

1. Kafedra dialekticheskogo i istoricheskogo materializma Kiyevskogo
meditsinskogo instituta.
(PUBLIC HEALTH)

GURVICH, S.S., dots.

First measures of the Ukrainian Communist party in organizing the
public health service. Vrach.delo no.9:955-958 S'58 (MIRA 11:10)

1. Kafedra dialekticheskogo i istoricheskogo materializ-
ma Kiyevskogo meditsinskogo instituta.
(UKRAINE--PUBLIC HEALTH)

GURVICH, S.S., dotsent (Kiyev)

All-Union Conference on Philosophical Problems of Natural Science.
Vrach. delo no.4:435-437 Ap '59. (MIRA 12:7)
(SCIENCE—PHILOSOPHY)

GURVICH, Solomon Samuilovich; SHESTAKOV, P.A., red.; MARINYUK, M.V.,
tekhn.red.

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Rostovskoe knizhnoe izd-vo, 1960. 102 p.

(MIRA 14:2)

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(MEDICINE--PHILOSOPHY) (DIALECTICAL MATERIALISM)

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doktor fil. nauk, prof., red.; BYCHKO, I.V., kand. fil.
nauk, otv. red.; KRYMSKIY, S.B., kand. fil. nauk, otv.
red.

[Problems of dialectical materialism; for lectures on
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1964. 361 p. (MIRA 17:6)

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Some problems in the prevention and treatment of acute inflammation of the anastomosis following stomach resection. Vest. khir. 70 no.6:29-33 Je'63 (MIRA 16:12)

1. Iz bol'nitsy imeni Uritskogo (glavnyy vrach - zasluzhennyy vrach Latviyskoy SSR, kand.med. nauk Shushkev, D.A.) gor. Leningrada.

ZAV'YALOV, Ye.S., polkovnik meditsinskoy sluzhby, kand.med.nauk; GURVICH,
T.Kh.

Military psychology in the service of the imperialist armies.
Voen.-med.zhur. no.1:90-92 Ja '61. (MIRA 14:1)
(PSYCHOLOGY, MILITARY)

GURVICH, V.

GURVICH, V.

Defects in equipment supplied to meat packing plants. Mias. Ind.
SSSR. 25 no.3:16-17 '54. (MLRA 7:7)

1. Glavnyy mekhanik Kaliningradskego myasokombinata.
(Kaliningrad--Packing houses) (Packing houses--Kaliningrad)

PA 12/49T22

GURVICH, V. B.

Jul 48

USSR/Electricity
Circuit Breakers

"New Type of Breaking Devices for External Installations of the Factory 'Elektroapparat', " V. B. Gurvich, Engr, Factory 'Elektroapparat', 4 3/4 pp

"Test Elektro-Prom" No 7

Describes new series of breakers with capacities of 6, 10, 35 and 110 kv. Illustrated with photographs and dimensioned sketches. Tables show basic design characteristics. Kinematic principles of mechanism are also explained.

12/49T22

GURVICH, V.B.

24919 Gurchich, V.B. Raz"ediniteli Naruzhnoy Ustanovki Na 154 I 220 Kv.
Vestnik Elektroprom-sti, 1949, No. 7, S. 16-18

So: Letopis' No. 33, 1949

GURVICH, V.B.; KOVALEV, P.F., otvetstvennyy redaktor; SHEPAK, Ye.G., tekhnicheskii redaktor; KOROVENKOVA, Z.A., tekhnicheskii redaktor; EPPEL', N.Ya., korrektor.

[High voltage explosion-proof distributing installations for coal mines]
Vysokovol'tnye varyvobezopasnye raspredelitel'nye ustroistva dlia ugol'nykh
shakht. Moskva, Ugletekhnizdat, 1953. 87 p. (MLRA 6:5)
(Electricity in mining)

GURVICH, V. B.

AID P - 2068

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 10/29

Authors : Gurvich, V. B., Eng., and Kaplan, V. V., Kand. of Tech.
Sci.

Title : New 110-kv circuit breaker with low oil content

Periodical: Elek. sta., 4, 34-38, Ap 1955

Abstract : The article gives full data on the new MG-110 circuit breaker designed and tested in 1951-1952. The results of tests and a detailed explanation of mounting, operating and repairs are given. Three diagrams.

Institution: None

Submitted : No date

GURVICH, Veniamin Betsalelevich; AFANAS'YEV, V.V., redaktor; ZAHRODINA,
A.A., tekhnicheskiiy redaktor

[Switches for high-tension loads and their drives] Vykliuchateli
nagruzki vysokogo napriazheniia i privody k nim. Moskva, Gos. energ.
izd-vo, 1956. 55 p. (MLRA 9:10)
(Electric switchgear)

ARONOVICH, I.S., inzhener; GURVICH, V.^B~~M~~, inzhener.

Survey of designs of disconnecting setches for 380--400 kv.
Elektrichestvo no.1:60-64 Ja '56. (MLRA 9:3)

1. Zavod Elektroapparat".
(Electric switchgear)

SOV/1550

8(2,3)

PHASE I BOOK EXPLOITATION

Gurvich, Venyamin Bettsalelevich, and V.V. Kaplan
Malomaslyanyye podstantsionnyye vyklyuchateli i privody k nim
(Low-Oil-Content Substation Circuit Breakers and Their Drives). Moscow,
Gosenergoizdat, 1958. 131 p. 10,000 copies printed.

Ed.: L.K. Greyner; Tech. Ed.: Ye.M. Soboleva.

PURPOSE: This book is intended for engineers, technicians and qualified personnel engaged in the installation and operation of high-voltage power-distribution equipment. It may also serve as a textbook for students of power-engineering tekhnikums and technical schools.

COVERAGE: The authors explain the general principles of construction and operation of h-v circuit breakers. They also provide a classification of basic structural diagrams of low-oil-content substation circuit breakers. They describe in detail the construction of Soviet-made circuit breakers and their drives and present information necessary for their operation and repair. No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress (TK2842.G8)

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GURVICH, Veniamin Betsalelevich; KAPLAN, Veniamin Vasil'ovich;
AFANAS'YEV, V.V., red.

[Substation disconnecting switches with low-oil capacity
and their drives] Malomaslianye podstantsionnye vyklu-
chateli i privody k nim. 1zd.2., dop. Moskva, Energiia,
1964. 171 p.
(MIRA 17:12)

SINITSYN, V.A.; POLUDNIKOV, V.N.; GURVICH, V.B.; YEGOROV, V.M.; RETUYEV, V.I.

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3. Zavod "Elektroapparat" (for Gurvich, Yegorov, Retuyev).

GURVICH, V.F.

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59-68 '50. (MLRA 9:4)
(Pamirs--Fresh-water biology)

GURVICH, V.F.

Data on the productivity of Pamir lakes. Trudy probl. i tem.sov.no.1:
85-92 '51. (MLRA 9:7)
(Pamir--Fresh-water biology)

GURVICH, V.F.; PAVLOVA, M.V.

Hydrobiology of Orto-Tokey Reservoir. Trudy probl. i tem. soveshch.
no.2:48-55 '54. (MIRA 8:5)
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(Kara-Kul', Lake--Hydrology)

GURVICH, V.F.

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(Kara-Kul', Lake--Fresh-water fauna)